

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,661A  
Source: JFWO  
Date Processed by STIC: 01/30/2007

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 01/30/2007

PATENT APPLICATION: US/10/549,661A

TIME: 08:42:11

Input Set : N:\efs\01\_29\_07\10549661a\_efs\SeqList.txt

Output Set: N:\CRF4\01302007\J549661A.raw

```

1 <110> APPLICANT: PARK, Kyung-Hee
2     LEE, Kyu-Sang
3     LEE, Yeon-Su
4     KIM, Jae-Heup
5     PARK, Yeon-A
6     CHO, Ji-Young
7     SON, Ok-Kyoung
8     KIM, Byung-Chul
9     KIM, Min-Sun
12 <120> TITLE OF INVENTION: A polynucleotide associated with a colon cancer comprising
single
13     nucleotide polymorphism, microarray and diagnostic kit comprising
14     the same and method for diagnosing a colon cancer using the
15     polynucleotide
17 <130> FILE REFERENCE: YPL-0173
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/549,661A
C--> 19 <141> CURRENT FILING DATE: 2005-09-16
19 <150> PRIOR APPLICATION NUMBER: Korean 10-2004-0011327
20 <151> PRIOR FILING DATE: 2004-02-20
22 <150> PRIOR APPLICATION NUMBER: Korean 10-2005-0013395
23 <151> PRIOR FILING DATE: 2005-02-18
25 <160> NUMBER OF SEQ ID NOS: 48
27 <170> SOFTWARE: KopatentIn 1.71 and text editing
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 201
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: variation
36 <222> LOCATION: (101)
37 <223> OTHER INFORMATION: n=A or C, polymorphic site
40 <400> SEQUENCE: 1
41 tacattactg tattgtatac attttgtcta tttcttcttt gattttgttt ttgtttttat
W--> 43 aattatttca ggtgtgggga aaaattctgt ccctgatact ncatcttgtc cagaactgga      60
45 agagctcatt atttctttat ttgtactggt tttatctatt catccatagt gttctcaaca      120
47 gagctatcaa aagtattatc a                                180
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 201
52 <212> TYPE: DNA
53 <213> ORGANISM: Homo sapiens
55 <220> FEATURE:
56 <221> NAME/KEY: variation
57 <222> LOCATION: (101)
58 <223> OTHER INFORMATION: n=A or G, polymorphic site

```

## RAW SEQUENCE LISTING

DATE: 01/30/2007

PATENT APPLICATION: US/10/549,661A

TIME: 08:42:11

Input Set : N:\efs\01\_29\_07\10549661a\_efs\SeqList.txt

Output Set: N:\CRF4\01302007\J549661A.raw

```

61 <400> SEQUENCE: 2
62 tctataccac agtagtggtg atctcaagag cttagcatgt tggcttaaag acatccaggg      60
W--> 64 atgaggtggt ggagtcagat tgagtttgaa tcttagctct ncttgatta ctgtgttattc      120
66 ttggccaagt atttaacctc tctgaaatag gttttctcag ggctgtgaag tttggaagat      180
68 acataaaaagc ccaaagaaaa a                                201
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 201
73 <212> TYPE: DNA
74 <213> ORGANISM: Homo sapiens
76 <220> FEATURE:
77 <221> NAME/KEY: variation
78 <222> LOCATION: (101)
79 <223> OTHER INFORMATION: n=A or C, polymorphic site
82 <400> SEQUENCE: 3
83 ccttaagggtg gacagaaaat gaattgtttc cttcttacca tctgttattg tttttgcctg      60
W--> 85 aaggcctgac tgccttccta ctccctaata aacaaagggg nattctattg accaattcat      120
87 tttcaaagag attttaaaag gcattaagca atcaattctc acatagtgtc caaattgagt      180
89 ctctcattca ttctcttgcc t                                201
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 201
94 <212> TYPE: DNA
95 <213> ORGANISM: Homo sapiens
97 <220> FEATURE:
98 <221> NAME/KEY: variation
99 <222> LOCATION: (101)
100 <223> OTHER INFORMATION: n=G or C, polymorphic site
103 <400> SEQUENCE: 4
104 tgacctcagg tgatccaccc acctcggcac cccaaagtgc tgggattaca ggtgtgagcc      60
W--> 106 accacaccag gccttgggta ccatgccttg aaccatttca ntgccttttg gagatggatg      120
108 agttgccagc atccttctta gatccctata tatttgttta tttattgaac aaatacatat      180
110 taacttatct tttgaccaa a                                201
113 <210> SEQ ID NO: 5
114 <211> LENGTH: 201
115 <212> TYPE: DNA
116 <213> ORGANISM: Homo sapiens
118 <220> FEATURE:
119 <221> NAME/KEY: variation
120 <222> LOCATION: (101)
121 <223> OTHER INFORMATION: n=G or T, polymorphic site
124 <400> SEQUENCE: 5
125 ccaggattg gaaatgatgg atgctttcca ggggccccga tccatcatca gatgaatacg      60
W--> 127 cagccccctc cccaaggaag ctccctgggtc attgagatgc ntaattctct ccttattttc      120
129 attactgttt ctcgtttgta tggattattt ttcttcagta atctgggctt tacatgactg      180
131 aataagaaaa tcatttggtc a                                201
134 <210> SEQ ID NO: 6
135 <211> LENGTH: 201
136 <212> TYPE: DNA
137 <213> ORGANISM: Homo sapiens
139 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 01/30/2007

PATENT APPLICATION: US/10/549,661A

TIME: 08:42:11

Input Set : N:\efs\01\_29\_07\10549661a\_efs\SeqList.txt

Output Set: N:\CRF4\01302007\J549661A.raw

```

140 <221> NAME/KEY: variation
141 <222> LOCATION: (101)
142 <223> OTHER INFORMATION: n=A or T, polymorphic site
145 <400> SEQUENCE: 6
146 atttcctgcc tgtgataaat gtgtcccaat atttgtcttt tgggtgttgt tgttgagaat      60
W--> 148 cattttctcat gttgggaaat gtgaagtcaa atagtgtgac nggacttgct gaatgattga      120
150 gtcaaccaca aatgggtattg tcaaccatgg ctgttgaatt aatgagaaca attaaaactc      180
152 atttttcaga ggtcaaaaga t                                201
155 <210> SEQ ID NO: 7
156 <211> LENGTH: 201
157 <212> TYPE: DNA
158 <213> ORGANISM: Homo sapiens
160 <220> FEATURE:
161 <221> NAME/KEY: variation
162 <222> LOCATION: (101)
163 <223> OTHER INFORMATION: n=G or T, polymorphic site
166 <400> SEQUENCE: 7
167 attagctaaa cagtttaatg atgatctgcc aagaaattga tgtcagcagt tagaaaacta      60
W--> 169 aagtcctttt ttatgcagag acagcacagt tggtaaaatt nttatagttg acaagttgga      120
171 aagcagtgca tgtctctgac aagacttcag ctctgtggga agtgtttga aagaaatgga      180
173 gtgatagtgt ttgttggcat t                                201
176 <210> SEQ ID NO: 8
177 <211> LENGTH: 201
178 <212> TYPE: DNA
179 <213> ORGANISM: Homo sapiens
181 <220> FEATURE:
182 <221> NAME/KEY: variation
183 <222> LOCATION: (45)
184 <223> OTHER INFORMATION: n=A, T, G or C
187 <400> SEQUENCE: 8
W--> 188 tgctcatgta ctttatggat ttgaccacc tcattctgga caaanctca ggaggatctc      60
190 ttcagggaca tgatgcagtt ttgagactgg tggagattcg macggtatga agcatttggc      120
192 ttcttgagat ttaggtttc taaattttga gtcceaagg tatcacacag tagctctcat      180
194 ttaagtgagt cttctcatg t                                201
197 <210> SEQ ID NO: 9
198 <211> LENGTH: 201
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
202 <220> FEATURE:
203 <221> NAME/KEY: variation
204 <222> LOCATION: (101)
205 <223> OTHER INFORMATION: n=G or T, polymorphic site
208 <400> SEQUENCE: 9
209 aatatgatgt cttggatttg cttcaaaata atacaagaaa agggtttgac ttttggtcag      60
W--> 211 tatatagatg agtcatgact gaccatgggg tgacaattgt ngaagctgag ttaggtaccc      120
213 agaggttcgt tataatatcc tgtctatgtt aatctgcaat atgtctgaca ttttttataa      180
215 ttaaaacttc ttttgaaaag a                                201
218 <210> SEQ ID NO: 10
219 <211> LENGTH: 201

```

## RAW SEQUENCE LISTING

DATE: 01/30/2007

PATENT APPLICATION: US/10/549,661A

TIME: 08:42:11

Input Set : N:\efs\01\_29\_07\10549661a\_efs\SeqList.txt

Output Set: N:\CRF4\01302007\J549661A.raw

```

220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
223 <220> FEATURE:
224 <221> NAME/KEY: variation
225 <222> LOCATION: (101)
226 <223> OTHER INFORMATION: n=G or T, polymorphic site
229 <400> SEQUENCE: 10
230 attaaaaaac ctgtattttt ggatgtattt ttagaaaaac agatttacag gaaacaaacc      60
W--> 232 aaacaaaaag acttgtggta caagaaaatt agaaaatata ntatatttaa aatggacgtg      120
234 ttagcttggtc ccaggtaaac tcagttcaaa atatgggata aaagagattt tacttttaac      180
236 ttcgaacagc tagagaatga t                                201
239 <210> SEQ ID NO: 11
240 <211> LENGTH: 201
241 <212> TYPE: DNA
242 <213> ORGANISM: Homo sapiens
244 <220> FEATURE:
245 <221> NAME/KEY: variation
246 <222> LOCATION: (101)
247 <223> OTHER INFORMATION: n=A or G, polymorphic site
250 <400> SEQUENCE: 11
251 aattggtaat tactttgatt aaattaattt aaaacttggc agtctgtgga gacatttttg      60
W--> 253 attgtagag cttggagggg ccacccgtgg gaagaggcca nggatgctgc tggaaaccta      120
255 caatgccag gacagccctc aacaaaaaat gttctggctt caaatgtcaa tagctctgag      180
257 attgagaaac cctgttatag t                                201
260 <210> SEQ ID NO: 12
261 <211> LENGTH: 201
262 <212> TYPE: DNA
263 <213> ORGANISM: Homo sapiens
265 <220> FEATURE:
266 <221> NAME/KEY: variation
267 <222> LOCATION: (101)
268 <223> OTHER INFORMATION: n=A or G, polymorphic site
271 <400> SEQUENCE: 12
272 aagcagaaga tgaccagtct gaggcctcag ggaagaaatc tgtgaaggga gtgtctaaga      60
W--> 274 aatatgttcc tccacgcttg gttccagtac attatggtat naactttggc tgctgcctcc      120
276 tcagcatgaa ctgtttctct tttctctggt cttggataac cctgcttatt ttcacatgt      180
278 agatgaaaca gaagctgagc g                                201
281 <210> SEQ ID NO: 13
282 <211> LENGTH: 30
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: primer
290 <400> SEQUENCE: 13
291 acgttggatg gagctcttcc agttctggac                                30
294 <210> SEQ ID NO: 14
295 <211> LENGTH: 30
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence

```

## RAW SEQUENCE LISTING

DATE: 01/30/2007

PATENT APPLICATION: US/10/549,661A

TIME: 08:42:11

Input Set : N:\efs\01\_29\_07\10549661a\_efs\SeqList.txt

Output Set: N:\CRF4\01302007\J549661A.raw

```

299 <220> FEATURE:
300 <223> OTHER INFORMATION: primer
303 <400> SEQUENCE: 14
304 acgttgatg tcaggtgtgg ggaaaaattc 30
307 <210> SEQ ID NO: 15
308 <211> LENGTH: 19
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: primer
316 <400> SEQUENCE: 15
317 tccagttctg gacaagatg 19
320 <210> SEQ ID NO: 16
321 <211> LENGTH: 30
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: primer
329 <400> SEQUENCE: 16
330 acgttgatg aaagacatcc agggatgagg 30
333 <210> SEQ ID NO: 17
334 <211> LENGTH: 30
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: primer
342 <400> SEQUENCE: 17
343 acgttgatg acttgccaa gataacacag 30
346 <210> SEQ ID NO: 18
347 <211> LENGTH: 20
348 <212> TYPE: DNA
349 <213> ORGANISM: Artificial Sequence
351 <220> FEATURE:
352 <223> OTHER INFORMATION: primer
355 <400> SEQUENCE: 18
356 tgagtttgaa tcttagctct 20
359 <210> SEQ ID NO: 19
360 <211> LENGTH: 30
361 <212> TYPE: DNA
362 <213> ORGANISM: Artificial Sequence
364 <220> FEATURE:
365 <223> OTHER INFORMATION: primer
368 <400> SEQUENCE: 19
369 acgttgatg tggacactat gtgagaattg 30
372 <210> SEQ ID NO: 20
373 <211> LENGTH: 31
374 <212> TYPE: DNA
375 <213> ORGANISM: Artificial Sequence
377 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/549,661A

DATE: 01/30/2007  
TIME: 08:42:12

Input Set : N:\efs\01\_29\_07\10549661a\_efs\SeqList.txt  
Output Set: N:\CRF4\01302007\J549661A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 101 ✓  
Seq#:2; N Pos. 101 ✓  
Seq#:3; N Pos. 101 ✓  
Seq#:4; N Pos. 101 ✓  
Seq#:5; N Pos. 101 ✓  
Seq#:6; N Pos. 101 ✓  
Seq#:7; N Pos. 101 ✓  
Seq#:8; N Pos. 45 ✓  
Seq#:9; N Pos. 101 ✓  
Seq#:10; N Pos. 101 ✓  
Seq#:11; N Pos. 101 ✓  
Seq#:12; N Pos. 101 ✓

## VERIFICATION SUMMARY

DATE: 01/30/2007

PATENT APPLICATION: US/10/549,661A

TIME: 08:42:12

Input Set : N:\efs\01\_29\_07\10549661a\_efs\SeqList.txt

Output Set: N:\CRF4\01302007\J549661A.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60  
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60  
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60  
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:60  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:60  
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:60